REMARKS

Claims 3, 4, 5, 8, 9, and 10 remain in the case. Claims 1, 2, 6, and 7 have been canceled. Claim 3 has been amended to incorporate therein the limitations in canceled claims 6 and 7. Claim 8 has been amended to change its dependency from canceled claim 6 to amended claim 3.

The cancelation of claims 1 and 2 obviates the § 102(b) rejection thereof in numbered paragraphs 5 and 6 on pages 2 and 3 of the "Detailed Action" portion of the Office action. The cancelation of claims 6 and 7 obviates the § 103(a) rejection thereof in paragraph 8 of the "Detailed Action."

The following comments are provided in response to the § 103(a) rejection of claims 3-5 and 8-10.

Cimini (U.S. Patent No. 7,301,965) discloses a method of shaping data packet transmission by nodes, wherein each node sets a maximum limit for MAC service data unit size based on data rate so that maximum transmission times for data packet transmissions by all of the nodes are the same. In other words, Cimini focuses on how to adapt the data packet length so that each node can provide the same data transmission rate. As described in column 9, lines 1-3, "[t]he predictor 114 can be configured to repeat execution whenever a predetermined timeout occurs (step 148), or in some other manner, e.g., in response to a particular event."

Western (U.S. Patent No. 7,489,703) discloses a method of selecting a coding scheme for use in a wireless packet data communication system, wherein a quality measurement is performed during the transfer and a second coding scheme is selected based on the quality measurement. In addition, Western discloses in column 14, lines 20-23 that "[t]he channel quality parameters are conventional channel quality parameters, such as bit and block error rates absolute received signal strength (RSS) and RSS variation, or combinations thereof."

As can be seen from the foregoing, both Cimini and Western do not disclose the additional features of claim 3. As described in the specification of the present application, the presetting of the predetermined time period is to configure a frequency to adaptively adjust the frame length, or in that the adaptive adjustment is performed once after how many data frames are sent.

In this case, the data packet loss is considered to be caused by interference or noise, and the transmission medium for wireless communication are multi-user shared, and the data packet might be lost due to the collision of the data packets from different users. When only one packet is lost, it is not enough to conclude that the channel becomes worse. Similarly, the MAC frame lengths should not be increased immediately after only one data packet is successfully transmitted. The channel characteristics are considered to be definitely changed only when a plurality of continuous successful sending or unsuccessful sending occur. Therefore, while configuring the predetermined time period, the adaptive adjustment should not be performed each time one data packet is sent. And, the number of the received ACK information preset in the predetermined time period need not to be equal to that of the sent data frame, but can be set according to the number of loss packets allowable to the user. Thus, the preset number of the received ACK information can be a number obtained by subtracting the number of lost packets allowable to the user from the number of the sent data frames.

In addition, the speed of the adaptive method in tracing the channel changes depends on the predetermined time period. When the predetermined time period is short, the trace performance of the adaptive method will be better, but it is possible to generate a larger deviation due to a too large tracing frequency. If the predetermined time period is long, the result of the algorithm will not largely deviate from the channel performance, but the tracing speed will be slower. The predetermined time period can be appropriately selected as necessary.

In view of the foregoing amendment and comments, applicants submit that the bases for rejection in the Office action have been fully addressed, and that the application is in condition for allowance.

No fee is believed to be due for this Amendment. Should any fees be required, please charge such fees to Deposit Account No. 50-2215.

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Respectfully submitted,

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8